

## Transcriptional enhancer factor TEF-1 Recombinant Protein | TEAD1 recombinant protein

Recombinant Human Transcriptional enhancer factor TEF-1

CATALOG #  
**AAA15941**

HOST  
**E Coli or Yeast or Baculovirus or Mammalian Cell**

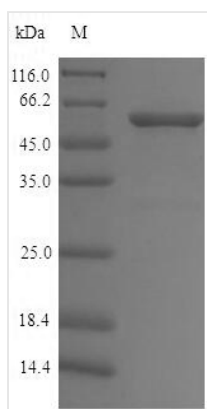
### PRODUCT SYNONYMS

Transcriptional enhancer factor TEF-1; Recombinant Human Transcriptional enhancer factor TEF-1; NTEF-1; Protein GT-IIC; TEA domain family member 1; TEAD-1; Transcription factor 13; TCF-13; TEAD1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Positions      | 1-426aa; Full Length Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                | MEPSSWSGSE SPAENMERMS DSADKPIDND AEGVWSPDIE QSFQEALAIY PPCGRRKIIL SDEGKMYGRN<br>ELIARYIKLR TGKTRTRKQV SSHIQVLARR KSRDFHSLK DQTAKDKALQ HMAAMSSAQI VSATAIHNKL<br>GLPGIPRPTF PGAPGFWPGM IQTGQPGSSQ DVKPFVQQAY PIQPAVTAPI PGFEPASAPA PSVPAWQGRS<br>IGTTKLRLVE FSAFLEQQRD PDSYNKHLFV HIGHANHSYS DPLLESVDIR QIYDKFPEKK GGLKELFGKG<br>PQNAFFLVKF WADLNCNIQD DAGAFYGVTS QYESSENMTV TCSTKVCSEF KQVVEKVETE YARFENGFRV<br>YRINRSPMCE YMINFIHKLK HLPEKYMMS VLENFTILLV VTNRDTQETL LCMACVFEVS NSEHGAQHHI<br>YRLVKD |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                               |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Related Product Information for TEAD1 recombinant protein | Transcription factor which plays a key role in the Hippo signaling pathway, a pathway involved in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Acts by mediating gene expression of YAP1 and WWTR1/TAZ, thereby regulating cell proliferation, migration and epithelial mesenchymal transition (T) induction. Binds specifically and cooperatively to the SPH and GT-IIC 'enhansons' (5'-GTGGAATGT-3') and activates transcription in vivo in a cell-specific manner. The activation function appears to be mediated by a limiting cell-specific transcriptional intermediary factor (TIF). Involved in cardiac development. Binds to the M-CAT motif.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Categories/Family for TEAD1 recombinant protein   | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References                                                | Cloning, expression, and transcriptional properties of the human enhancer factor TEF-1.Xiao J.H., Davidson I., Matthes H., Garnier J.-M., Chambon P.Cell 65:551-568(1991) Human chromosome 11 DNA sequence and analysis including novel gene identification.Taylor T.D., Noguchi H., Totoki Y., Toyoda A., Kuroki Y., Dewar K., Lloyd C., Itoh T., Takeda T., Kim D.-W., She X., Barlow K.F., Bloom T., Bruford E., Chang J.L., Cuomo C.A., Eichler E., FitzGerald M.G., Jaffe D.B., LaButti K., Nicol R., Park H.-S., Seaman C., Sougnez C., Yang X., Zimmer A.R., Zody M.C., Birren B.W., Nusbaum C., Fujiyama A., Hattori M., Rogers J., Lander E.S., Sakaki Y.Nature 440:497-500(2006) The TEA domain a novel, highly conserved DNA-binding motif.Buerklin T.R.Cell 66:11-12(1991) TEAD mediates YAP-dependent gene induction and growth control.Zhao B., Ye X., Yu J., Li L., Li W., Li S., Yu J., Lin J.D., Wang C.Y., Chinnaiyan A.M., Lai Z.C., Guan K.L.Genes Dev. 22:1962-1971(2008) TEAD transcription factors mediate the function of TAZ in cell growth and epithelial-mesenchymal transition.Zhang H., Liu C.Y., Zha Z.Y., Zhao B., Yao J., Zhao S., Xiong Y., Lei Q.Y., Guan K.L.J. Biol. Chem. 284:13355-13362(2009) Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis.Olsen J.V., Vermeulen M., Santamaria A., Kumar C., Miller M.L., Jensen L.J., Gnad F., Cox J., Jensen T.S., Nigg E.A., Brunak S., Mann M.Sci. Signal. 3:RA3-RA3(2010) System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation.Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B.Sci. Signal. 4:RS3-RS3(2011) Insights into transcription enhancer factor 1 (TEF-1) activity from the solution structure of the TEA domain.Anbanandam A., Albarado D.C., Nguyen C.T., Halder G., Gao X., Veeraraghavan S.Proc. Natl. Acad. Sci. U.S.A. 103:17225-17230(2006) Structural insights into the YAP and TEAD complex.Li Z., Zhao B., Wang P., Chen F., Dong Z., Yang H., Guan K.L., Xu Y.Genes Dev. 24:235-240(2010) A novel TEAD1 mutation is the causative allele in Sveinsson's chorioretinal atrophy (helicoid peripapillary chorioretinal degeneration) .Fossdal R., Jonasson F., Kristjansdottir G.T., Kong A., Stefansson H., Gosh S., Gulcher J.R., Stefansson K.Hum. Mol. Genet. 13:975-981(2004) |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 296434319                                      |
| NCBI GeneID                      | 7003                                           |
| NCBI Accession #                 | NP_068780.2                                    |
| NCBI GenBank Nucleotide #        | NM_021961.5                                    |
| UniProt Accession #              | P28347; A4FUP2; E7EV65                         |
| Molecular Weight                 | 49.9 kDa                                       |
| NCBI Official Full Name          | transcriptional enhancer factor TEF-1          |
| NCBI Official Synonym Full Names | TEA domain transcription factor 1              |
| NCBI Official Symbol             | TEAD1                                          |
| NCBI Official Synonym Symbols    | AA; REF1; TCF13; TEF-1; NTEF-1; TCF-13; TEAD-1 |
| NCBI Protein Information         | transcriptional enhancer factor TEF-1          |
| UniProt Protein Name             | Transcriptional enhancer factor TEF-1          |
| UniProt Gene Name                | TEAD1                                          |

|                            |                             |
|----------------------------|-----------------------------|
| UniProt Synonym Gene Names | TCF13; TEF1; TEAD-1; TCF-13 |
| UniProt Entry Name         | TEAD1_HUMAN                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/tead1-recombinant-protein-e-coli/15941>